

Capture Every MWh

Learn to Maximize Value From Every Wind Turbine



Patrick Woodson,
Chairman,
E.ON Climate &
Renewables NA



Jeff Wehner,
VP Operations,
Duke Energy



Lee Faulkner,
Senior Business Manager,
Innogy



Ryan McGraw,
President,
Orion Energy Group LLC



Andrea Miller,
VP Asset Management,
Apex Clean Energy

KEY TOPICS STREAMS

- ▶ **Rethink Turbine Reliability** – Gain exclusive insights into how you can optimize O&M resources to enhance reliability, avert major failures and slash turbine downtime
- ▶ **Asset & Risk Management** – Learn how to maximize wind revenue, increase AEP, eliminate major operational risks and evaluate the future of wind generation
- ▶ **The Pursuit of MWs** – Understand how market & policy forces will reshape the way you build wind revenue, and learn what market leaders have done to achieve sustainable growth in renewables

TOP 4 FEATURES FOR 2017

1. Attend our **2nd Annual Owner Operator Workshop & Networking Day** (April 10) which will provide owner operators with an exclusive chance to pore over technical O&M case studies, tools, technologies and strategies in a private peer-environment
2. **NEW Asset & Risk Management Workshops** designed exclusively for asset, risk and revenue professionals that will reveal how to maximize generation and revenue
3. Celebrate true O&M innovation and achievement at the **3rd Annual Wind O&M Dallas Awards Ceremony & Networking Dinner** – attended by major stakeholders, winners and nominees old and new
4. **NEW O&M Networking Party** – Join us after the drinks reception on Day 1 as we ferry top speakers, attendees and major industry stakeholders for a new networking party in a private Dallas bar

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Capture Every MWh

Produce more Energy! Avoid core components failure. Help your team work safer, faster, smarter. Every day, making the same to-do list...

Yet, if you're anything like me (albeit in a different role) you'll soon find yourself bogged down in the intricacies of the day to day role, and often unable to be truly forward thinking, and taking a real proactive approach to making your business and your team better.

Ensure efficiency in the nuts and bolts O&M practices. Achieve maximum long term value from your assets. While I'm sure you acknowledge the importance of these phrases, especially as the industry matures and technology evolves, are you truly taking major steps towards producing more MWhs? Is the industry even there yet?

What is stopping you? Is it simply a question of time or resource? Or is it that you have a more risk adverse approach? Or something else maybe...?

This is a challenge facing every major and minor wind turbine owner, investor and operator both large and small. As we acknowledge the difficulty of actually knowing how to increase AEP without taking on a fair share of risk, there needs to be high level debate of how a radically evolving supply chain will impact your efforts, long term. We need to recognize, as an industry, that in order to progress and at a faster rate, it is all of us who needs to stand up and deliver on what works, what doesn't and to celebrate in every little bit of success they have seen.

It's for this reason that Wind Energy Update is so excited to announce our most ambitious Wind O&M Dallas program to date, including; all new C-Level Headliners, a new Asset & Risk Management Track, high-value owner workshops and more alongside our pioneering O&M tracks, the world's only wind O&M awards and our unparalleled networking opportunities.

No doubt it's a challenge, but that's why the **9th Annual Wind O&M Dallas 2017** conference and exhibition is here. To provide you and a record 600+ industry colleagues with the exclusive insights, tools, technologies and latest case histories you need to enhance asset reliability, avert component failures, slash downtime, increase AEP, mitigate portfolio risks and strategize for an ever growing and more profitable wind turbine fleet.

'Capture Every MWh' is the theme, it's the mantra of an industry shedding it's purely 'green value' and embracing the unique business case of an ever improving levelized cost of energy. It's an important mission for all wind executives looking to plan for the future of wind – so if you, like 600+ of your industry colleagues believe in it too then Dallas really is the only place you should be.

Join us - we need you

Jon Harman

Head of Renewables

NewEnergyUpdate



Achieve Genuine Wind ROI at North America's Principal Business Driven Event

-  • **New C-Level Headliners**
-  • **A Record 600+ Attendees**
-  • **50% More Small-Medium Owner Operators**
-  • **50+ Booths**
-  • **NEW Asset Management Topic Stream**
-  • **Owner Operator Networking Day**
-  • **World's Only Wind O&M Awards**

Meet the Dallas 2017 Team...

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Record 600+ Attendees

Bringing together top decision makers and asset managers from around the globe

New Wind Farm Owners Pass

Exclusive new owners subsidy available – see pass prices and T&C's for details

All New Asset & Risk Management Track

Go beyond O&M to maximize the value of your assets in all aspects of operations

Secure your pass today to get the best value or to explore group discounts, visit:
www.windenergyupdate.com/operations-maintenance-usa/register.php

AN IMPRESSIVE NEW LINE-UP FOR 2017 ALREADY INCLUDES...

Presenting to more than 600+ of the globe's most senior energy stakeholders, exciting innovators and impressive new talent, 70+ top level speakers will deliver the very latest case studies, drive panel debates and lead all new interactive workshops that will allow you to reap further performance gains and maximize fleet AEP long term.

WIND OWNER OPERATORS & DEVELOPERS



Patrick Woodson
Chairman
E.ON Climate & Renewables NA



Gerrud Wallaert
VP Regional Operations
E.ON Climate & Renewables NA



Matt Kessel
VP Regional Operations
E.ON Climate & Renewables NA



Chris Shugart,
SVP Operations,
Pattern Energy



Brian Hayes,
EVP – Asset Operations,
EDP Renewables



Rotem Zucker,
Director of Asset Management,
EDP Renewables



Jeff Wehner
VP Operations
Duke Energy



Matt Burt,
SVP Operations,
RES Americas



John Boyle,
Manager Health & Safety,
Apex Clean Energy



Andrea Miller,
VP Asset Management,
Apex Clean Energy



Brian LaMay,
Director of Operations & Asset
Optimization,
Apex Clean Energy



Tracy Jarvis,
General Manager,
AES Wind Generation



Brad Hendrix,
BOP Lead,
AES Wind Generation



Troy Ryan,
Eastern Regional Manager,
Leeward Energy



Lee Faulkner,
Senior Business Manager,
Innogy



Ryan McGraw,
President,
Orion Energy Group LLC



WIND OEMS & ISPS



Justin Forbes,
Director O&M Marketing &
Business Development,
EDF Renewable Services



Mark Albenze,
CEO,
Siemens Wind & Renewables



Andy Holt,
General Manager Global Wind
Projects & Services,
GE Renewable Energy



Jeff Puterbaugh,
Director of Operations,
Goldwind



Phillippe Delleville,
Vice President,
Gamesa



Jeff Weiner,
Global Director,
GE Energy Storage



Chris Brown,
President,
Vestas



Peter Wells,
VP Service,
Vestas



Daniel Molyneux,
Blade Services Manager,
Vestas



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SPECIALIST WIND COMPONENT, SERVICE PROVIDERS & INNOVATORS



Brandon Sommerfield,
Managing Director,
NGC Transmission Equipment



Bruce Neumiller,
CEO,
Gearbox Express



Zhiwei Zhang,
VP Engineering NA,
Romax Technology



Richard Brooks,
Wind Aftermarket Manager,
The Timken Company



Brent Wise,
Co-Founder,
Tech Safety Lines



Jeff Walkup,
VP Sales & Operations,
Gram & Juhl



Gorka Parada,
CEO,
NEM Solutions USA



James Moorman,
Wind & Energy Market Manager,
LAPP GROUP



Bruce Hammett,
President,
WECS



Brandon Fitchett,
Senior Technical Lead,
EPRI



KEY EVENT & INDUSTRY INFLUENCERS



Tom Kiernan,
CEO,
American Wind Energy Association



Holly Hughes,
SVP Operations,
Natural Power



Aaron Barr,
Technical Advisor,
MAKE



Aris Karcianas,
Managing Director,
FTI Consulting



Judah Moseson,
VP Operations,
Cooke Power Services



Jochem Sauer,
Managing Director,
Spares in Motion



Kevin Alewine,
Director of Marketing,
Shermco



RAISING STANDARDS OF O&M GLOBALLY

Wind O&M Dallas has a rich legacy as the foremost meeting point for raising standards of Operations & Maintenance performance across North America and far afield.

Secure your seat today!

THE WIND O&M DALLAS 2017 CONFERENCE PROGRAM AT A GLANCE

We've been working hard to include even more owner operator case studies and workshops alongside a brand new asset & risk management track.

To cover all the topics and ensure the best possible experience for all we've split the majority of the agenda into two Tracks, held across four rooms over two days.

To help you understand what will be happening, when and where we've drafted the rough overview below.

		VENUE/ BALLROOM				
		Dallas Ballroom 1	Dallas Ballroom 2	Dallas Ballroom 3	Austin Ballroom	Ft Worth Ballroom, Foyer & Dallas Foyer
APRIL 10	Afternoon	2nd Annual Owner Operator Pre-Conference Workshop & Networking				Exhibition Set-up
	Evening		3rd Annual Wind O&M Dallas Awards Ceremony & Gala Dinner 2017			Pre-Awards Networking Drinks
APRIL 11	Morning		C-Level Headliners – The Pursuit of MWhs			Exhibition & Networking
	Afternoon	Rethink Reliability The Core O&M Track PT.1	Rethink Reliability The Core O&M Track PT.2	Asset & Risk Management Track PT.1	Asset & Risk Management Track PT.2	Exhibition & Networking
	Evening	Wind O&M Dallas Networking Party – Venue TBC				
APRIL 12	Morning	Rethink Reliability The Core O&M Track PT.1	Rethink Reliability The Core O&M Track PT.2	Asset & Risk Management Track PT.1	Asset & Risk Management Track PT.2	Exhibition & Networking
	Afternoon	Rethink Reliability The Core O&M Track PT.1	Rethink Reliability The Core O&M Track PT.2	Asset & Risk Management Track PT.1	Asset & Risk Management Track PT.2	Exhibition & Networking

Note that opportunities to speak or be a panelist are limited. Contact kjeferies@fc-bi.com asap for more information.



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www.windenergyupdate.com/operations-maintenance-usa/register

PRE-CONFERENCE DAY *(APRIL 10 @ 1PM ONWARDS)*

Ahead of the main event & Wind O&M Dallas Awards join up to 100 leading owners for exclusive case studies, discussion, roundtables and networking

A unique opportunity to enjoy the very latest technical case studies on Gearbox, Blades, BOP, Asset Management issues alongside likeminded owners and out of site from prying vendors.

PRE CONFERENCE PROGRAM

1.30pm - PRE-REGISTRATION, EXHIBITION & WELCOME COFFEE

2.00 – 3.30pm – Technical Workshop hosted by NGC Transmission & Equipment



In an exclusive, owner only pre-conference workshop, get the chance to hear from NGC's technical specialists and end-users about:

- The fundamental design principles of GBX's, operations, common faults, failures and traditional remediation techniques
- Examine how to build a comprehensive GBX operations and maintenance strategy and what resources are available to boost your team's technical competency

3.30 – 3.45PM – COFFEE BREAK & NETWORKING

3.45 – 6.00pm – Owners Only Case Studies & Roundtables

View a selection of carefully curated owner operator case studies on topics from Gearbox, Blades, Bearings, Generators, BOP Maintenance and more – each hosted by a technical leader and followed by a roundtable open Q&A

6.00PM TILL LATE – WIND O&M DALLAS AWARDS CEREMONY,
GALA DINNER & NETWORKING DRINKS



Owners Day Timings

Start - 2.00pm April 10

Finish - 6.00pm April 10

**EXCLUSIVE
TO OWNER
OPERATORS**

Next Steps:

Free to Owners who book any pass! Simply contact kerr@windenergyupdate.com for info or to confirm your place!

EXCLUSIVE OWNERS ONLY PRE CONFERENCE GOLF DAY

While technical specialists are invited to the workshop, executive owner operators and major stakeholders will be invited to an exclusive networking session and golf experience ahead of the Wind O&M Dallas 2017 Awards Ceremony, hosted by NGC Transmission & Equipment.

Contact kjeferies@fc-bi.com for further information

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OWNERS WHO ATTEND WIND O&M DALLAS INCLUDE...



Next Steps: Places to each of these sessions are free but limited
Contact Kerr Jefferies at kerr@windenergyupdate.com now for further information now!

A Powerhouse Agenda to Unlock the Potential of Installed Wind...

[C-Level Headliners] The Pursuit of MWs – Understand how market & policy forces will reshape the way you build wind revenue, and learn what market leaders have done to achieve sustainable growth in renewables **(Dallas Ballroom 1)**

[Track 1] Rethink Reliability – The Core O&M Topics – Gain exclusive insights into how you can optimize O&M resources to enhance reliability, avert major failures and slash turbine downtime **(Dallas Ballroom 1 & 2)**

[Track 2] NEW for 2017 - Asset & Risk Management – Learn how to maximize wind revenue, increase AEP, eliminate major operational risks and evaluate the future of wind generation **(Dallas Ballroom 3 & Austin Ballroom)**










C-Level Headline Panel: The Pursuit of MWs

Moderated by: Tom Kiernan, *CEO, American Wind Energy Association*

Wind executives at the tops of their games will open the conference in panel to articulate and discuss the key trends that will shape the development of the Wind O&M industry over the next 5-10 years.

Get to have your own say and post your questions straight to the moderator using our innovative Sli.do conference Q&A tool from your cellphone.

Panelists set to Include:

	Patrick Woodson, <i>Chairman, E.ON Climate & Renewables NA</i>
	Brian Hayes, <i>EVP – Asset Operations, EDP Renewables</i>
	Jeff Wehner, <i>VP Renewable Operations, Duke Energy</i>
	Chris Shugart, <i>SVP Operations, Pattern Energy</i>
	Chris Brown, <i>President, Vestas</i>
	Mark Albenze, <i>CEO, Siemens Wind & Renewables</i>
	Andy Holt, <i>General Manager Global Wind Projects & Services, GE Renewable Energy</i>
	Phillippe Delleville, <i>Vice President, Gamesa</i>
	Jeff Puterbaugh, <i>Director of Operations, Goldwind</i>

TRACK 1: RETHINK RELIABILITY – THE CORE O&M TOPICS

How to Set Targets that Optimize Portfolio Performance

- Evaluate, with owners, the key steps you need to take to go from merely 'operating' a turbine to actually maximizing the amount of energy produced
- Understand whether you're collecting the right data and know if you're even asking the right questions of your portfolio when setting new targets
- Learn as owners share their knowledge on effectively benchmarking portfolio performance to ensure accountability in any new 'optimization' initiative, right from the start

Rotem Zucker, *Director of Asset Management, EDP Renewables*
Lee Faulkner, *Senior Business Manager, Innogy*

Development and trial of a ground-based non-destructive evaluation for wind turbine blades

- Documenting EPRI and Digital Wind's collaboration to evaluate different NDE technologies for ground-based measurements
- Update on most recent down-selected technologies, including long-wave thermal measurements coupled with acoustic emissions
- Example results of ground-based measurements of operational, running wind turbine blades
- Current capabilities and ongoing developments/improvements

Brandon Fitchett, *Senior Technical Lead, EPRI*

Effectively Prevent Wind Blade Erosion & Cracks

- Discuss the steps owners are taking to spot faults, excessive wear and cracks far earlier in the field without specialist help
- Understand how localized conditions lead to changes in blade vibration, erosion and understand how to factor this data into your local maintenance strategy
- Evaluate the solutions owners are testing to mitigate the effects of leading edge erosion, cracks and faults on their targeted annual energy production

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TRACK 1: RETHINK RELIABILITY – THE CORE O&M TOPICS

Designing the Next Generation of Blades

- Discuss the lessons the industry has learned in understanding the 'load' stresses imparted by rotor blades and debate what you believe can be done to mitigate failures on new turbines
- Evaluate how OEMs have become better at incorporating key learnings back into the design of new turbines and how this will impact the reliability and integrity of blades in your next wind turbine project
- Evaluate the most innovative changes manufactures are making to increase the integrity and life expectancy in the next generation of even larger turbines

Create, Sustain & Grow AEP Through an Effective Wind/Renewables 'Nerve Centre'

- See how Duke Energy has been able to improve turbine pitch, yaw and general alignment to maximize the energy produced from optimal weather windows
- Evaluate some of the unforeseen issues that arise when developing your control center, including 'local riot response'
- Examine how Duke Energy's nerve center development has created scalability & operating efficiency opportunities to other owner partners

Jeff Wehner, *VP Operations, Duke Energy*

WORKSHOP: Rescue: Prepared... or Perplexed?

- Three learning objectives:
- Rescue Program – Rescue Plan
- Training and familiarization of provided rescue equipment
- Developing a Safety Culture at your company

Brent Wise, *Co-Founder,*

Tech Safety Lines

Owner Operator Workshop Speakers
TBA Shortly

Blades Management – Why are we still talking about this?

- Grasp why it's taken so long for owners to 'find' on the current best practice for organizing inspections and service windows for blades
- Get the latest insights from owners 2016 blade maintenance campaigns
- Use owner insights on current blade life expectancy for different turbine types and locations to better plan your own scheduled inspections and maintenance programs

Daniel Molyneaux, *Blade Services Manager, Vestas*

Deploying Drones to Enhance Turbine Inspections

- Examine how owners have been able to utilize drones to effectively compliment traditional turbine inspections techniques
- Evaluate how drone inspections have affected operator manpower costs but also discuss the latest data on current ROI
- Understand how to overcome the challenges of integrating traditional analogue inspections data with new digital inspections data in way that compliments both and enhances the value of in-field decision making

NEW OWNER's WORKSHOP 98 Out of the Gate

Brian Hayes, *EVP – Asset Management, EDP Renewables*

Scheduling Best Practice for 2017-18

- Understand what owners currently know about the best timelines and holistic strategies for performing scheduled inspections
- Gain unique insights as owners discuss developing practice from lessons learned in the 2016 service season
- Evaluate how owners have been able to better organize labor and manpower so that scheduled maintenance and inspections are costing less downtime than ever before

KEYNOTE

A New Angle on Wind O&M – The Goldwind Story

Jeff Puterbaugh, *Director of Operations, Goldwind*

Evolving Philosophy on Gearbox Maintenance

- Discuss the key lessons learned we can all take advantage of to stay on top of gearboxes
- Examine the unique insights of owners and specialists on what can be done to ensure greater reliability on larger turbines subject to greater stresses

Fluids Management & Life Expectancy

- Understand how to dodge common errors by owners mismanaging oil changes in the gearbox and how this threatens the longevity of the whole gearbox and turbine environment
- Hear from a unique cross-supply chain panel of owners, OEMs, Gearbox Specialists and Oil Vendors about the failures you can avoid by taking on board these essential lessons learned
- Evaluate case studies showing the vast improvements to long-term O&M costs by more efficiently managing all turbine oils and fluids

Capture the Full Utility of Ground-Based Imaging

- Review the impact of advanced inspections and high-res imaging from ground based systems in expediting the identification of early-stage faults
- Discuss how such systems are being integrated successfully into the field-team's preventative maintenance toolkit in a way that meets owner ROI expectations

Better Understand Gearboxes & Rotating Forces

- Ensure you understand the effects of rotating forces on the gearbox and drivetrain
- Learn how owners have been able to effectively mitigate the effects of faults and failures caused by excessive rotating forces on their major hub components
- Understand what all owners can do to use this knowledge to make far better decisions about the service and selection of components in order to maximize life expectancy

TRACK 1: RETHINK RELIABILITY – THE CORE O&M TOPICS

NEW CASE STUDY Operations Management & Critical Processes

Matt Kessell, *VP Regional Operations,*
E.ON Climate & Renewables NA

Condition Monitoring & Predictive Maintenance

- Measure the 'real world' utility of CMS systems in use by owners and how the capacity of this technology is evolving to offer value to smaller owner operators
- Ask how they've managed to deploy such systems to avert major failures, mitigate fault risk and expedite budget saving repairs in the field
- Discuss the uncertainties that still exist in the use of CMS technology and discover which leading owners hold the most advanced knowledge

Lessons Learned: Common Wind Turbine Bearing Failures, Costs & Solutions

- Evaluate the most common bearing failures that have plagued the wind farm operators for the last five years and how they can be avoided
- Increase your technical understanding of the causes of such failures and their potential financial impact to your O&M budget
- Discuss the steps you can take to mitigate the risk of such failures and explore the upgrades owners have been using to prevent bearing failures from reappearing

Richard Brooks, *Wind Aftermarket
Manager, The Timken Company*

Up Tower Repairs & The Cost of Access

- Examine the development of crane deployment best practice and availability and the trends in decreasing maintenance downtime
- Explore an owner case study into the current capacity for up tower repairs, how they can be better organized and how these repairs are changing the business case for crane use
- Gain critical insights into the business case made when using innovative self-hoisting crane solutions during the 2016 service season

High Power Electrical Component Failures

- With electrical component failures so frequently experienced, ensure you understand the proportion and combined cost of current average annual downtime caused by electrical failures
- Learn how owners have effectively built resources for efficient route cause analysis and efficiently prioritizing failures for repair
- Discuss the value of lost production experienced by owners that commonly delay electrical failure repairs

Challenges in Electrical Failure Route Cause Analysis (RCA)

- Discuss current best practice for owners being able to expedite the RCA of electrical failure in the field
- Evaluate the business case for improving the integrity and reliability of electrical components
- Discover what benefits owners can expect to reap if they push for greater standardization amongst electrical components

Never Forget the Balance of Plant

- Compare owner experiences in managing the stability of their 'local grid' and preventing BOP related disruptions to critical turbine strings
- Gain insights on the best practice for managing the integrity and repair of underground cables, transformers and substations
- Examine the easy budget wins you can find by truly understanding the cumulative small issues from the management of wild animals to proper recording of all small failures

Judah Moseson, *VP Operations, Cooke
Power Services*
Troy Ryan, *Eastern Regional Manager,
Leeward Energy*
Brad Hendrix, *BOP Lead, AES Wind
Generation*

Connect the Dots; HSE and OPEX

- Understand how to build consistently good safety cultures, internal policies and contractor expectations so that seriousness and cost of HSE incidents is always at its lowest level
- Discuss the value of 'shared' data in safety and how you can use quality HSE to directly limit human capital costs or human error derived downtime
- Examine how to encourage excellent documentation and recording practices to notice easily rectifiable human capital costs

John Boyle, *Health & Safety Manager,*
Apex Clean Energy

Raising Basic Training Standards

- Understand the value of staff investment, changing technician expectations and industry resources for the development of a more qualified workforce operating more advanced machinery
- Learn how owners have been able to indirectly influence overall operating costs by building the business case for increasing staff skills, as well as exploring trends on personnel retention
- Discuss the proposed value of industry certification, as well as new initiatives that cover standards and guidelines for working at height

Discover your next business partner...

With 600+ Executive level attendants to meet, greet and connect with
- make sure to stay for our Networking Drinks Session after Day 1.

Catch a minute with key speakers, old colleagues and potential business partners in a relaxed but business driven environment...

**Secure your pass today
to get the best rate**



TRACK 2: NEW ASSET & RISK MANAGEMENT

Rethink the 'internet' to reduce spare parts waste and increase AEP

- Understand how current spare parts procurement create excessive waste and learn to pinpoint failures in your supply chain
- Evaluate new approaches being used by owners to increase warehouse efficiency by promoting inter-owner transparency and increase local parts availability
- Examine how these internet solutions can be used to directly and positively influence your current operating bottom lines

Jochem Sauer, *Managing Director, Spares in Motion*

The Value of Good Record Keeping

- Understand how to turn failure rates and performance data into meaningful financial models in advance of any internal retrofit or upgrade discussions
- Examine the costs of rectifying poor data collection, failure recording and documentation when looking to make large capital investments on turbine upgrades and retrofits
- Learn from leading owners on how to ensure you keep good records from the start and invest the correct resources in documentation infrastructure

Economics of Power Boost Technology

- Get acquainted with the numbers behind the energy boosting systems
- Understand why, even in for less mature owners, you should already be considering the cost benefits of power boosting tools verses equipment 'conservation' strategies
- Receive exclusive insights from key wind stakeholders about which approach best meets the needs of which kind of wind investor (Utility, IPP, Hedge/Pension Fund) taking into account valuable experiences from across the US market

NEW CASE STUDY

Private Equity Interests – What's the True Value of Wind & What to Watch Out For

Private Equity Panel led by Holly Hughes, SVP, **Natural Power**

Repowering: Important Lessons

- Review the critical steps, rules and costs of embarking on a large scale repowering effort
- Understand how these steps, rules and costs translate to the North American market and what impact this will have on the business case and timelines for full-scale repowering of US wind farms
- Discuss the knowledge gaps the US market will have to debate and overcome to conclude the business case for repowering

Peter Wells, *VP Service, Vestas*

Unscheduled Maintenance Costs

- Understand how operators within the European and North American markets organize contingency cover and funds for unplanned maintenance
- Discover the common gaps in owner operator coverage and how they've acted to find solutions
- Gain insights into the coverage market and be able to confidently approach the correct parties for cover and guidance for unplanned maintenance costs

The Insurers Crystal Ball

- Examine how claim trends from the US market help reinforce our knowledge of the typical failure rates and life expectancies of key turbine components in the US market
- Uncover exclusive perspectives from the insurance and brokerage market about the latest trends in turbine component failure rates to know what you should be keeping a closer eye on

RAISING STANDARDS OF O&M GLOBALLY

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Secure your seat today!

Risk Management and Choosing the Right Service Pathway

- Participate in an in-depth owner operator session that presents the business case for each post-warranty service model with perspectives from those owners who have done it before.
- This unique session allows you to take away key lessons learned and make the correct EoW service decision for your business, portfolio size, location and risk management approach.
- This will be an interactive decision where you ask the questions. Guide topics include but are not limited to.

Andrea Miller, *VP Asset Management, Apex Clean Energy*
Gerrud Wallaert, *VP Regional Operations, E.ON Climate & Renewables NA*

Self Service

- Understand when it makes sense for a business to pursue self service
- Examine how owners create the necessary infrastructure, resources and staffing levels to make a success of servicing their own assets
- Review the estimated cost savings vs. risk and overall financial benefits in adopting self-service models long term

Warranty Extension

- Review the business case for opting in to warranty extension
- Explore the ROI being seen by owners who are currently under extended contracts
- Learn how OEMs are working to minimize service costs in future

3rd Party Service Contract

- Understand how ISPs are working to compete on price but offer increased service quality and accountability
- Evaluate case studies that detail the ROI achieved by contracting to a 3rd Party for post warranty services

TRACK 2: NEW ASSET & RISK MANAGEMENT

Real-Time Data & Decision Making

- Know how leading owners are managing to amass and structure 'big data' in such a way that it can be easily accessed and analyzed for positive decision making
- Compare the experiences of owners who have managed to successfully integrate analytical and prognostic solutions to manage to optimize the long term performance of their plants
- Understand the steps owners have taken to build and equip the analytics experts required to process and monetize data streams efficiently for in-field teams

Brian LaMay, *Director of Operations & Asset Optimization, Apex Clean Energy*

Forward Thinking: IP & Cyber Security

- As data becomes more prevalent in the renewables business, understand who really owns the data being collected and why this is important for timely O&M decision making
- Ensure your aware of the complex potential cyber security risks in operating more and more complex assets through remote or automotive systems

Aris Karcianias, *Managing Director, FTI Consulting*

Rules of the Wind Energy Game

- Examine the impact of changing US energy generation and usage trends and how this impacts the projected growth plans your business has for further wind capacity, the price MW and the long term competitiveness of your existing wind fleets
- Understand what obstacles and market changes or how new energy projects can stand to hinder your ability to get produced wind energy to market
- Revisit your understanding of grid capacity and transmission networks to ensure you can anticipate any risks of curtailment

Matthew Burt, *SVP Operations, RES Americas*

Ryan McGraw, *President, Orion Energy Group LLC*

NEW Game Changers – Energy Storage Workshop

Hosted by GE Energy Storage

In a brand new workshop, work with GE Energy Storage and top owners as they provide the latest insight into:



- The different configurations, technology and use cases for energy storage technology in installed energy capacity
- How revenue streams are built and strengthened through the use of energy storage technology in other energy generation industries
- What the specific use cases are for energy storage alongside existing wind & solar capacity in the US and globally

Lessons learned from energy storage installation, commissioning and integration already

Record 600+ Attendees

Bringing together top decision makers and asset managers from around the globe

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Exclusive new owners subsidy available – see pass prices and T&C's for details

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Go beyond O&M to maximize the value of your assets in all aspects of operations



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THINK ABOUT YOUR CONFERENCE GOALS – WHAT DO YOU WANT TO DO?

- Engage with Major Wind Stakeholders
- Launch a New Product, Service or Strategic Partnership
- Address your Target Audience
- Stay ahead of your Competitors
- Demonstrate your Capabilities
- Build Brand Awareness in New or Existing Markets
- Hold Private Client Meetings
- Meet New Prospects & Build Relationships
- Conduct Invaluable Market Research



HAVE YOU SET A CONFERENCE BUDGET?

- Speak with your marketing team and decide on what represents a sustainable conference investment for your business
- Make sure to assign the right budget to the right conference!
- No matter what your budget, we will work with you to build a package that meets your conference objectives and exceeds onsite expectations
- Request our Sponsorship & Exhibition Prospectus 2017 by emailing rmcmanus@afc-bi.com

'We invest in events like this because they lower our cost of customer engagement and sales. At Wind O&M Dallas we met and discussed common points of view with E.ON, Enel and Next Era and are now engaged with all three'

Chief Digital Officer, Sentient Science

CALL NOW TO DISCUSS YOUR OPTIONS

Spaces are limited and the event is already 60% sold out so make sure to enquire today to get the wheels in motion and secure your spot before the chance is missed!



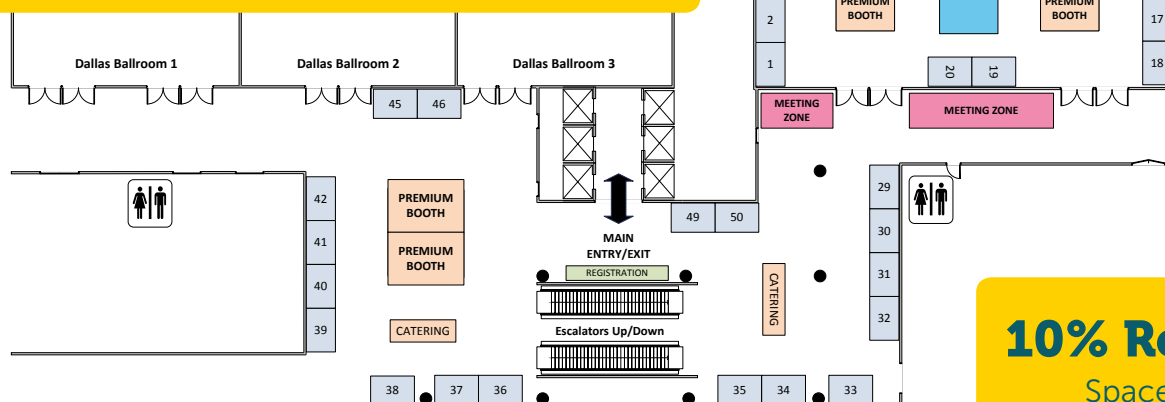
Robert McManus,
Commercial Director,
Wind Energy Update

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EXHIBITION
NETWORKING!**

10% Remaining

Spaces for 2017
almost all reserved!

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EXHIBITORS



9th Annual WIND O&M DALLAS AWARDS 2017

A showcase of wind's most valuable talent and exceptional innovation!

Visit our Awards Website to have your say now!

2 WIND
0 ENERGY
1 update
6 DALLAS

Winner

Best Industry Newcomer

**VISIT OUR
WEBSITE TO
GET THE FULL
NOMINATIONS
GUIDE AND GET
NOMINATING
NOW!**

After review with our external partners, key industry contacts and top wind energy stakeholders it was decided that the Wind O&M Dallas Awards 2017 would put emphasis on the celebration of individuals, teams and innovation over companies in order to shine a light on those who truly deserve our recognition and admiration.

As a result, there are five trophies and awards up for grabs on April 10, 2017...



**BEST EXAMPLE
OF O&M 2017**



***NEW*
WIND FARM
TECHNICIAN OR
TEAM OF THE
YEAR 2017**



**WIND SMALL
VENDOR OF THE
YEAR 2017**



**BEST
TECHNOLOGICAL
INNOVATION OF
THE YEAR 2017**



**MOST EXCITING
INDUSTRY
NEWCOMER 2017**

The Wind Energy Operations & Maintenance Report 2016

Real data and independent analysis to help you choose the most cost-effective O&M strategy to maximize ROI on your onshore wind power assets

Boost wind power production | Reduce O&M costs | Minimize turbine downtime

KEY DELIVERABLES OF THE REPORT INCLUDE:

- » **Identify the optimum maintenance strategy for gearboxes, generators and blades:**
- » **Benchmark your wind assets' reliability against your peers**
- » **OEMs vs ISPs vs In-house O&M**



KEY QUESTIONS ANSWERED:

What are the main **causes of turbine failure** and how can I prevent them?

What types of turbine failure have the **biggest impact on productivity**?

How can I **avoid catastrophic failure** of gearboxes, generators or blades through best O&M practice?

When is it more **cost effective** to carry out O&M in-house rather than working with OEMs or ISPs?

How are **other companies reducing their O&M costs** whilst delivering better wind farm performance?

Under which circumstances is it cost-effective to invest in **condition monitoring systems**, rather than carry out **scheduled O&M**?

Which **O&M strategies** are more suitable for my particular type of asset and market?

PREVIOUS BUYERS OF OUR REPORT INCLUDE:

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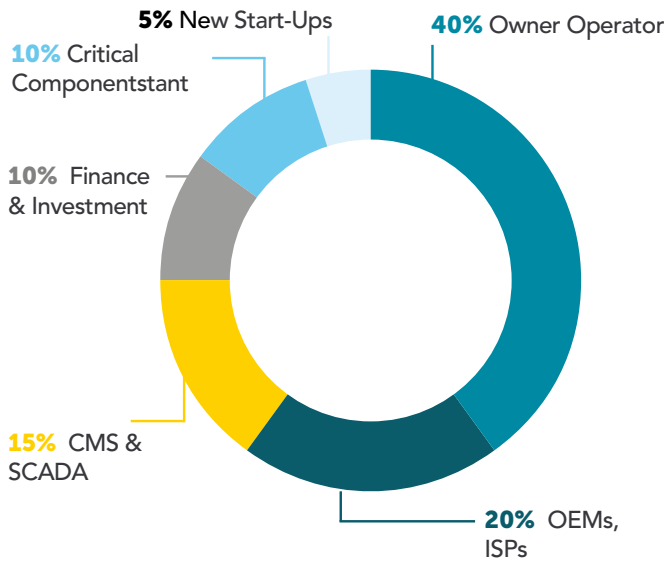
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HITACHI
Inspire the Next

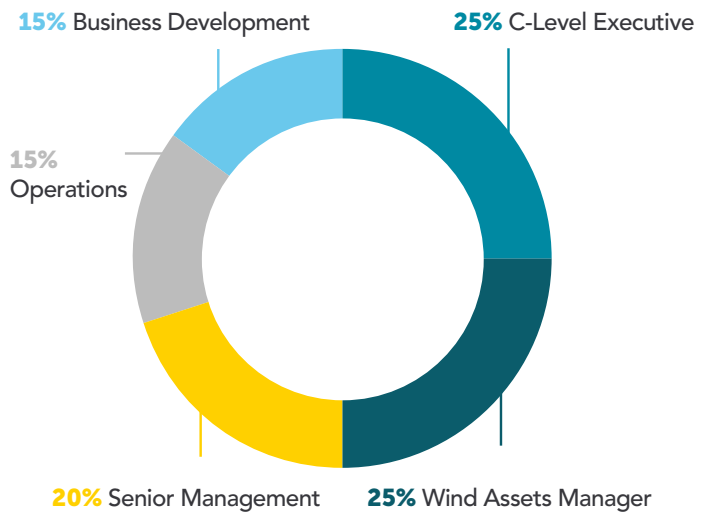
Check out the sample to full 361 page report [here now at](http://www.windenergyupdate.com/operations-maintenance-usa/)
<http://www.windenergyupdate.com/operations-maintenance-usa/>

You can't get networking like Wind O&M Dallas anywhere else...

Attendees by Company Type



Attendees by Seniority



Where are they from?



Here is a sneak peak at some of those from the last edition

General Manager, **AES Wind Generation**
Team Leader - **Buffalo Gap 3, AES Wind Generation**
Senior Business Manager, **Algonquin Power**
Plant Manager - Wind Division, **Algonquin Power**
Senior Manager, **Alliant Energy**
Reginal Director Wind General Operations, **Alliant Energy**

Vice President - Asset Management, **Apex Clean Energy**
Manager - Safety, Health & Environmental, **Apex Clean Energy**
Manager, **Alaska Village Electric Cooperative Member**
Relations Specialist, **AWEA**
Chief Executive Officer, **AWEA**
Key Account Manager, **BP Wind Energy**

Application Engineer, **BP Wind Energy**
Director - Field Safety, **BP Wind Energy**
Head - Renewables, **Capital Power**
Consultant, **CFE Mexico**
Site Management, **Colorado Highlands Wind**
Site Management, **Colorado Highlands Wind**
Plant Manager, **CR Operaciones y Mantenimiento SA**

Project Manager, **DTE Energy**
Specialist - Engineer, **DTE Energy**
Manager - Wind Resources, **DTE Energy**
Vice President Operations, **Duke Energy Renewables**
Business Development Manager, **Duke Energy Renewables**
President Commercial Operations, **Duke Energy Renewables**

Director - Asset Management, **E.ON Climate & Renewables**
Operations, **E.ON Climate & Renewables North America Inc.**
Vice President -Operations West Texas, **E.ON Climate & Renewables North America Inc.**
Operations Training Manager, **E.ON Climate & Renewables North America Inc.**

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Bring the team -

In gathering +600 industry experts across 2 days, providing you with multiple discussions and conference sessions, and giving you the freedom to explore critical O&M technologies and Asset Management techniques – we understand the need for you to bring colleagues with you to ensure that all these benefits are taken advantage of. Find out how much you could save with a group booking by contacting us now at kjeferies@fc-bi.com



*NEW – Wind Farm Owners Pass:

This pass type is only available to wind farm owners and developers that are currently managing installed +1MW capacity (such as E.ON, Avangrid, Next Era, Duke Energy, Gestamp, EDPR, Leeward Energy, RES Americas, Mid-American, Pattern Energy, Brookfield etc.). All registrants for this pass that are not wind farm owners will be charged for an Executive Pass at that day's rate.



1. Select Your Registration Package - All prices in USD

PASS DETAILS	Premium Pass	Executive Pass	Economy Pass	NEW – Wind Farm Owners Pass*
Access to the full 2-day conference & technology showcase	✓	✓	✓	✓
Access to online networking center pre & post conference	✓	✓		✓
Access to all presentation slides	✓	✓		✓
Full audio recordings of all speakers	✓	✓		✓
Access to the Wind O&M Dallas Awards Ceremony & Gala Dinner (April 10)	✓	✓		✓
Access to the exclusive delegate Networking Party (April 11)	✓	✓		✓
Access to the exclusive Owners Pre-Conference Workshop & Networking Day (April 10)				✓
Access to the Official Wind O&M Dallas Debrief including key summaries, analysis and video	✓	✓		✓
Get the complete Wind Energy Update Onshore O&M Series Report Bundle (Worth \$7995 standalone) View the sample report here	✓			
Super Early Bird - Save up to \$300 when you register by Jan 20, 2017	\$6,790	\$1,995	\$1,695	\$699
Early Bird - Save up to \$200 when you register by Feb 17, 2017	\$6,890	\$2,095	\$1,795	\$745
Last Chance - Save up to \$100 when you register by Mar 17, 2017	\$6,990	\$2,195	\$1,895	\$799
Full Price	\$7,090	\$2,295	\$1,995	\$849

Groups of 2 or more can now unlock special discounts. Enquire directly for details

2. ENTER ATTENDEE DETAILS

Mr/Mrs/Ms/Dr:	First name:	Last name:
Company:		Position/Title:
Telephone:	Fax:	Email:
Address:	Zipcode:	Country:

SAVE an EXTRA 10%

ENTER THE DISCOUNT CODE

BROCHURE10

before Dec 2, 2016 for a further 10% launch discount on top of existing savings!

3. PAYMENT OPTIONS

<input type="checkbox"/> I enclose a check/draft for: (Payable to FC Business Intelligence Ltd)	Credit card number:
<input type="checkbox"/> Please invoice my company: Purchase Order Number:	Expiry date:
<input type="checkbox"/> Please charge my credit card:	Security number:
Amex <input type="checkbox"/> Visa <input type="checkbox"/> Mastercard <input type="checkbox"/>	Name on card:
	Signature:

To Enquire about Group Discounts simply:

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Terms & Conditions: Special Needs - If you have a disability that may require special assistance, please call our Client Services Representative on 1 800 814 3459 x 7245 (US Toll Free) or +44 (0)207 375 7245 (global). **If you have to cancel** - It is possible to transfer your place to a colleague/client if you are unable to attend, but you must inform Wind Energy Update of this in writing of this change prior to the event. You will incur 25% cancellation fee on or before Nov 4 2016. For all cancellations received after March 17 2017 we will be obliged to charge the full fee. The organizers (Wind Energy Update) reserve the right to make changes to the program without notice. We will send you an e-mail to confirm that we have received your registration.

Subscriptions - All attendees of the Wind Operations & Maintenance Summit 2016 will be automatically subscribed to the free Wind Energy Update Wrap, our free newsletter. If you do not want to receive those, just email info@windenergyupdate.com with "weekly wrap unsubscribe" in the title. **Method of Payment** - In order to guarantee that your check-in process is fast, efficient and all lines are avoided please make sure your payment is received by FCBI Energy Ltd in a timely manner. If your payment has not been received before the event a credit card payment will be required at the time of check in. For more information, contact the Wind Energy Update team at info@windenergyupdate.com

Capture Every MWh

Learn to Maximize Value From Every Wind Turbine



Patrick Woodson,
Chairman,
E.ON Climate &
Renewables NA



Jeff Wehner,
VP Operations,
Duke Energy



Lee Faulkner,
Senior Business Manager,
Innogy



Ryan McGraw,
President,
Orion Energy Group LLC



Andrea Miller,
VP Asset Management,
Apex Clean Energy

KEY TOPICS STREAMS

- ▶ **Rethink Turbine Reliability** – Gain exclusive insights into how you can optimize O&M resources to enhance reliability, avert major failures and slash turbine downtime
- ▶ **Asset & Risk Management** – Learn how to maximize wind revenue, increase AEP, eliminate major operational risks and evaluate the future of wind generation
- ▶ **The Pursuit of MWs** – Understand how market & policy forces will reshape the way you build wind revenue, and learn what market leaders have done to achieve sustainable growth in renewables

TOP 4 FEATURES FOR 2017

1. Attend our **2nd Annual Owner Operator Workshop & Networking Day** (April 10) which will provide owner operators with an exclusive chance to pore over technical O&M case studies, tools, technologies and strategies in a private peer-environment
2. **NEW Asset & Risk Management Workshops** designed exclusively for asset, risk and revenue professionals that will reveal how to maximize generation and revenue
3. Celebrate true O&M innovation and achievement at the **3rd Annual Wind O&M Dallas Awards Ceremony & Networking Dinner** – attended by major stakeholders, winners and nominees old and new
4. **NEW O&M Networking Party** – Join us after the drinks reception on Day 1 as we ferry top speakers, attendees and major industry stakeholders for a new networking party in a private Dallas bar

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